

Notice of Allowability

Application No.

10/780,219

Applicant(s)

SCOTT ET AL.

Examiner

Art Unit

Phuong Phu

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Response filed on 7/6/07.
2. ☒ The allowed claim(s) is/are 56-82.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 4/2/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

PHUONG PHU
PRIMARY EXAMINER

Phuong Phu
08/03/07

DETAILED ACTION

1. This Office Action is responsive to the Response filed on 7/6/07. Accordingly, claims 1-55 are canceled; and claims 56-95 are currently pending of which claims 56-82 are elected and claims 83-95 are non-elective claims.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

IN THE CLAIMS:

-Claims 83-95 are canceled.

3. Note that this application is in condition for allowance except for the presence of claims 83-95 directed to claims non-elected without traverse. Accordingly, claims 83-95 have been cancelled.

REASONS FOR ALLOWANCE

4. Claims 56-82 are allowed.

5. The following is an examiner's statement of reasons for allowance:

-Regarding independent claim 56, none of prior art of record teaches or suggests a method for communicating with phone lines across an isolation barrier that comprises a plurality of isolation elements, the method comprising procedures of communicating an encoded digital differential signal from phone line side circuitry to powered side circuitry across at least two of

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the isolation elements of said isolation barrier, the encoded digital differential signal including control data and a digital data signal, wherein bidirectional communication exists through the at least two of the isolation elements; providing a clock signal from the powered side circuitry to the phone line side circuitry through at least one of the plurality of isolation elements; and providing power from the powered side circuitry to the phone line side circuitry while still maintaining the isolation required by the phone line isolation regulatory standards.

-Regarding independent claim 62, none of prior art of record teaches or suggests a method for communicating with phone lines across an isolation barrier that comprises a plurality of isolation elements, the method comprising: procedures of communicating an encoded digital differential signal from phone line side circuitry to powered side circuitry across at least two of the isolation elements of said isolation barrier, the encoded digital differential signal including control data and the digital data signal, wherein bidirectional communication exists through the at least two of the isolation elements; providing a clock signal from the powered side circuitry to the phone line side circuitry through at least one of the plurality of isolation elements; and providing power from the powered side circuitry to the phone line side circuitry to generate at least one power supply within the phone line side circuitry while still maintaining the isolation required by the phone line isolation regulatory standards.

-Regarding independent claim 66, none of prior art of record teaches or suggests a method for communicating with phone lines across an isolation barrier that comprises a plurality of isolation elements, the method comprising: procedures of communicating a digital data stream as a digital differential signal from bi-directional connections on phone line side circuitry to bi-

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directional connections on powered side circuitry across at least two of the isolation elements of said isolation barrier, wherein bi-directional communication occurs across the at least two of the isolation elements; providing a clock signal from the powered side circuitry to the phone line side circuitry through at least one of the plurality of isolation elements; and providing power from the powered side circuitry to the phone line side circuitry while still maintaining the isolation required by the phone line isolation regulatory standards.

-Regarding independent claim 73, none of prior art of record teaches or suggests a method for communicating with phone lines across an isolation barrier that comprises a plurality of isolation elements, the method comprising: procedures of communicating a digital data stream as a digital differential signal from bi-directional connections on phone line side circuitry to bi-directional connections on powered side circuitry across at least two of the isolation elements of said isolation barrier, providing a clock signal from the powered side circuitry to the phone line side circuitry through at least one of the plurality of isolation elements; and providing power from the powered side circuitry to the phone line side circuitry to generate at least one power supply within the phone line side circuitry while still maintaining the isolation required by the phone line isolation regulatory standards.

-Regarding independent claim 78, none of prior art of record teaches or suggests a method for communicating with phone lines from a user end of the phone lines across an isolation barrier that comprises a plurality of isolation elements, the method comprising: procedures of communicating an encoded digital differential signal from user end powered side circuitry to user end phone line side circuitry across at least two of the isolation elements of said isolation barrier, the encoded digital differential signal including control data and the digital data

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signal, wherein bidirectional communication exists through the at least two of the isolation elements; providing a clock signal from the user end powered side circuitry to the user end phone line side circuitry through at least one of the plurality of isolation elements; and providing power from the user end powered side circuitry to the user end phone line side circuitry while still maintaining the isolation required by the phone line isolation regulatory standards.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571-272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Phuong Phu
07/23/07

**PHUONG PHU
PRIMARY EXAMINER**

Phuong Phu
Primary Examiner
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